

EXHIBIT 1

CURRICULUM VITAE AND BIBLIOGRAPHY OF  
PROFESSOR SIR AARON KLUG, PH.D.

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## Curriculum vitae - Aaron Klug

Date of birth: 11th August 1926

- 1937-41      Durban High School
- 1942-45      University of Witwatersrand, Johannesburg: B.Sc. cum laude 1945
- 1946-48      University of Capetown: M.Sc. 1st class honours 1946
- 1948-49      Junior Lecturer in Department of Physics, University of Capetown
- 1949-52      Cavendish Laboratory, University of Cambridge: Ph.D. 1953  
1851 Exhibition Overseas Scholarship  
Rouse Ball Student of Trinity College, Cambridge  
ScD University of Cambridge, 1987
- 1953          Senior Assistant in Research in Colloid Science Department, Cambridge
- 1954-61      Crystallography Laboratory, Department of Physics,  
Birkbeck College, London. Nuffield Fellow (1954-1957);  
Head, Virus Research Project (1958-1961)
- 1962-          MRC Laboratory of Molecular Biology, Cambridge.  
From 1978-1986, Joint Head (with Dr. H.E. Huxley) Structural Studies Division.  
From October 1986 to September 1996, Director of the Laboratory.  
Since retiring as Director, continues as member of MRC staff, leading a  
group on the regulation of gene expression
- 1962-93      Fellow of Peterhouse, Cambridge.  
College Lecturer and Director of Studies in Natural Sciences until 1986.
- 1995          President of the Royal Society

## Honours

- 1969 Fellow of the Royal Society, London
- 1969 Honorary Foreign Member, American Academy of Arts and Sciences
- 1978 Hon DSc, Chicago University
- 1978 Hon DSc, Columbia University, New York
- 1978 Dr Honoris Causa, Strasbourg University
- 1979 Heineken Prize of the Royal Netherlands Academy of Arts & Sciences
- 1980 Hon Dr Fil, University of Stockholm
- 1981 Louisa Gross Horwitz Prize, Columbia University
- 1982 Nobel Prize for Chemistry
- 1983 Gold Medal of Merit, Cape Town University
- 1983 Hon Fellow, Trinity College, Cambridge
- 1983 Foreign Associate, Max-Planck-Gesellschaft, FRG
- 1984 Hon DSc, Hebrew University of Jerusalem
- 1984 Foreign Associate, U.S. National Academy of Sciences
- 1985 Hon DSc, University of Witwatersrand
- 1985 Hon Fellow, Royal Microscopical Society
- 1985 Copley Medal, Royal Society
- 1985 Hon DSc, Hull University
- 1985 Harden Medal, The Biochemical Society (of Great Britain)
- 1987 Hon DSc, St. Andrew's University
- 1987 Hon Fellow, Royal College of Physicians
- 1987 Baly Medal, Royal College of Physicians
- 1988 Knight Bachelor
- 1989 Foreign Associate of Académie des Sciences, Paris
- 1989 Hon Professor of Molecular Biology, University of Cambridge
- 1991 Hon DSc, University of Western Ontario
- 1991 Hon Fellow, Royal College of Pathologists
- 1993 Hon Fellow, Peterhouse, Cambridge
- 1994 Hon DSc, University of Warwick
- 1994 Hon Fellow, Birkbeck College
- 1995 Member of the Order of Merit
- 1996 Prix Spécial du Jury de le Prix Science pour l'Art 1996, Paris
- 1996 Honorary Life Member of the New York Academy of Sciences
- 1996 William Bate Hardy Prize of the Cambridge Philosophical Society
- 1996 Member of the American Philosophical Society
- 1996 Hon PhD, Weizmann Institute of Science
- 1996 William Bate Hardy Prize of the Cambridge Philosophical Society
- 1997 Hon DSc, University of Cape Town
- 1997 Hon Fellow, Chinese Academy of Medical Sciences
- 1997 Foreign Associate, Korean Academy of Science & Technology
- (1998 Hon DLitt, University of Cambridge)

## Named Lectures

1972	Carter-Wallace Lectures, Princeton University
1973	Leeuwenhoek Lecturer, Royal Society
1974	Molecular Biology Institute Distinguished Lecture Series, University of California, Los Angeles
1975	Dunham Lectures, Harvard Medical School
1976	Smith, Kline & French Lectures, University of California, San Francisco
1979	Harvey Lecture, New York
1980	Smith, Kline and French Lectures, University of California, Berkeley
1983	Lane Lectures, Stanford University
1983	Wellcome Visiting Professorship, Univ. of Washington, Seattle
1985	Silliman Lectures, Yale University
1985	Wellcome Visiting Professorship, University of Arizona, Tucson
1985	Jubilee Lecture, The Biochemical Society (of Great Britain)
1986	Sir Jesse Boot Foundation Lecture, Nottingham University
1986	Rapkin Memorial Lecture, Institut Pasteur
1986	Founders' Lecture, Scripps Institute, U.S.A.
1986	Cetus Lectures, University of California, Berkeley
1986	Pauli Lectures, ETH, Zurich
1986	Nishina Memorial Lecture, Tokyo
1987	J.T. Baker Lecture, Cornell University
1987	Linacre Lecture, St. John's College, Cambridge
1988	Proctor & Gamble Lecture, Urbana University, Illinois
1988	Konrad Bloch Lecture, Harvard University
1989	Jean Weigle Lecture, University of Geneva
1989	Steenbock Lectures, University of Wisconsin, Madison
1989	Lee Kuan Yew Distinguished Lecturer, National University of Singapore
1989	Maclean Lecture, Baylor University, Houston
1990	Innovators in Biochemistry Lecture, University of Virginia, Richmond
1990	Frontiers Lecture, Case-Western Reserve University
1990	FMC Lectures, Princeton University
1991	Calbiochem Lectures, University of California, San Diego
1991	Hoechst Roussel Lecturer, Virginia Commonwealth University
1991	First Pittsburgh Diffraction Society Lecturer, University of Pittsburgh
1991	Inaugural lecture for the Universitat Jaume I, Castelló, Spain
1992	1st Arne Brändström Lecture in Biophysical Chemistry, Chalmers University of Technology, Gothenburg
1992	Cameron Lecture, Royal College of Pathologists
1993	American Biophysical Society National Lecturer
1994	Bernal Lecture, Birkbeck College
1995	12th Hans Neurath Lecture, University of Washington, Seattle
1996	Kreitman Lectures, Ben-Gurion University
1996	William and Mary Lecture, Leiden University
1996	18th Aharon Katzir-Katchalsky Lecture, Weizman Institute of Science
1996	Inaugural Lecture, Malaysian Academy of Sciences
1997	Hallim Distinguished Lecture, Korean Academy of Science & Technology

## PUBLICATIONS

1. Klug, A. Nature 160, 570, 1947.  
'Crystal structure of para-bromochlorobenzene'
2. Klug, A. Acta Cryst. 3, 165-175, 1950.  
'The crystal and molecular structure of triphenylene, C<sub>18</sub>H<sub>12</sub>'
3. Klug, A. Acta Cryst. 3, 176-181, 1950.  
'The application of the Fourier-transform method to the analysis of the structure of triphenylene C<sub>18</sub>H<sub>12</sub>'
4. Klug, A. Dissertation for the Ph.D. degree, 1952.  
'The kinetics of phase changes in solids'
5. Klug, A. and Roughton, F.J.W. Faraday Society Discussions, No. 20, 1955.
6. Franklin, R.E. and Klug, A. Acta Cryst. 8, 777, 1955.  
'The splitting of layer lines in X-ray fibre diagrams of helical structures; application to tobacco mosaic virus'
7. Klug, A., Kreuzer, F. and Roughton, F.J.W. Proc. Roy. Soc. B 145, 452-472, 1956.  
'Simultaneous diffusion and chemical reaction in thin layers of haemoglobin solution'
8. Klug, A., Kreuzer, F. and Roughton, F.J.W. Helvetica Physiologica et Pharmacologica Acta, 14, 121-127, 1956.  
'The diffusion of oxygen in concentrated haemoglobin solutions'
9. Franklin, R.E. and Klug, A. Biochimica et Biophysica Acta 19, 403-419, 1956.  
'The nature of the helical groove on the tobacco mosaic virus particle'
10. Franklin, R.E. and Klug, A. and Holmes, K.C. CIBA Found. Symp. 1956, 39-52.  
'X-ray diffraction studies of the structure and morphology of tobacco mosaic virus'
11. Klug, A., Finch, J.T. and Franklin, R.E. Nature 179, 683-684, 1957.  
'Structure of turnip yellow mosaic virus'
12. Gibson, Q.H. and Roughton, F.J.W. with an Appendix by A. Klug. Proc. Roy Soc. B 146, 205-224, 1957.  
'The determination of the velocity constants of the four successive reactions of carbon monoxide with sheep haemoglobin'
13. Klug, A. and Franklin, R.E. Biochim. Biophys. Acta 23, 199-201, 1957.  
'The reaggregation of the A-protein of tobacco mosaic virus'
14. Klug, A., Finch, J.T. and Franklin, R.E. Biochim. Biophys. Acta 25, 242-252, 1957.  
'The structure of turnip yellow mosaic virus; X-ray diffraction studies'
15. Klug, A., Crick, F.H.C. and Wyckoff, H.W. Acta Cryst. 11, Pt. 3, 199-213, 1958.  
'Diffraction by helical structures'
16. Klug, A. Acta Cryst. 11, 515-543, 1958.  
'Joint probability distributions of structure factors and the phase problem'
17. Klug, A. and Franklin, R.E. Faraday Soc. Discussions No. 25, 1958.  
'Order-disorder transitions in structures containing helical molecules'

18. Franklin, R.E., Klug, A., Finch, J.T. and Holmes, K.C. Faraday Soc. Discussions No. 25, 1958.  
'On the structure of some ribonucleoprotein particles'
19. Finch, J.T. and Klug, A. Nature 183, 1709-1714, 1959.  
'Structure of poliomyelitis virus'
20. Klug, A. Acta Cryst. 12, 943, 1959  
'A reply to some comments by Karle and Hauptman'
21. Klug, A., Franklin, R.E. and Humphreys-Owen, S.P.F. Biochimica et Biophysica Acta 32, 203-219, 1959.  
'The crystal structure of Tipula Iridescent virus as determined by Bragg reflection of visible light'
22. Franklin, R.E., Caspar, D.L.D. and Klug, A. Plant Pathology: Problems and Progress, 1908-1958 (Golden Jubilee Volume of the American Phytopathological Society), University of Wisconsin Press, Madison 1959.
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'The form of crystals of mahoney poliovirus grown in phosphate-saline'
24. Klug, A. and Finch, J.T. J. Mol. Biol. 2, 201-215, 1960.  
'The symmetries fo the protein and nucleic acid in turnip yellow mosaic virus; X-ray diffraction studies'
25. Klug, A. and Caspar, D.L.D. Adv. Virus Res. 7, 225-325, 1960.  
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'X-ray "powder" diagrams of crystals of an artificial top component from turnip yellow mosaic virus'
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'X-ray diffraction studies on ribosomes from various sources'
28. Caspar, D.L.D. and Klug, A. Cold Spring Harb. Symp. Quant. Biol. 27, 1-24, 1962.  
'Physical principles in the construction of regular viruses'
29. Caspar, D.L.D. and Klug, A. MD Anderson Symposium: Viruses, Nucleic Acid and Cancer, 27-39, 1963.  
'Structure and assembly of regular virus particles'
30. Klug, A. and Berger, J.E. J. Mol. Biol. 10, 565-569, 1964.  
'An optical method for the analysis of periodicities in electron micrographs, and some observations on the mechanism of negative staining'
31. Finch, J.T., Klug, A. and Stretton, A.O.W. J. Mol. Biol. 10, 570-575, 1964.  
'The structure of the "polyheads" of T4 bacteriophage'
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'The structure of the papilloma-polyoma type. III. Structure of rabbit papilloma virus'
33. Klug, A. and Finch, J.T. J. Mol. Biol. 11, 403-423, 1965.  
'Structure of viruses of the papilloma-polyoma type. I. Human wart virus'

34. Klug, A. J. Mol. Biol. 13, 424-431, 1965.  
'Structure of viruses of the papilloma-polyoma type. II. Comments on other work'
35. Klug, A. and Finch, J.T. J. Mol. Biol. 11, 961-962, 1965.  
'Structure of viruses of the papilloma-polyoma type'
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'Observations on the substructure of flagellar fibres'
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39. Finch, J.T. and Klug, A. J. Mol. Biol. 15, 344-364, 1966.  
'Arrangement of protein subunits and the distribution of nucleic acid in turnip yellow mosaic virus. II. Electron microscope studies'
40. Klug, A. and DeRosier, D.J. Nature 212, 29-32, 1966.  
'Optical filtering of electron micrographs: reconstruction of one-sided images'
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'Rotational symmetry of the two turn disk aggregate of tobacco mosaic virus protein'
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'Relation between length and sedimentation coefficient for particles of tobacco rattle viruses'
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'Structure of broad beam mottle virus. I. Analysis of electron micrographs and comparison with turnip yellow mosaic virus and its top component'
44. Finch, J.T., Klug, A. and van Regenmortel, M.H.V. J. Mol. Biol. 24, 303-305 1967.  
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'The structure of the macromolecular units on the cell walls of bacillus polymyxa'
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'Reconstruction of three-dimensional structures from electron micrographs'
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'Structure of viruses of the papilloma-polyoma type. IV. Analysis of tilting experiments in the electron microscope'



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52. DeRosier, D.J. and Klug, A. Science 163, 1470, 1969.  
'Positions of ribosomal subunits'
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'The structure of viruses of the papilloma-polyoma type. V. Tubular variants built of pentamers'
54. Klug, A. Nobel Symposium 11: Symmetry and function of biological systems at the macromolecular level. Point groups and the design of aggregates, 1968.
55. Finch, J.T. and Klug, A. J. Mol. Biol. 46, 597-598, 1969.  
'Two double helical forms of polyriboadenylic acid and the pH-dependent transition between them'
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'Crystallinity of the gummy polysaccharide from *Watsonia* Pyramidata Corm-Sacs'
57. Crowther, R.A., DeRosier, D.J. and Klug, A. Proc. Roy. Soc. London A 317, 319-340, 1970.  
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58. Crowther, R.A., Amos, L.A., Finch, J.T., DeRosier, D.J. and Klug, A. Nature 226, 421-425, 1970.  
'Three dimensional reconstruction of spherical viruses by fourier synthesis from electron micrographs'
59. Finch, J.T., Klug, A. and Leberman, R. J. Mol. Biol. 50, 215-222, 1970.  
'The structures of turnip crinkle and tomato bushy stunt viruses. II. The surface structure; dimer clustering patterns'
60. Erickson, H.P. and Klug, A. Bericht der Bunsen-Gessellschaft für Physikalische Chemie (früher Zeitschrift für Electrochemie) Band 74, Heft 11, 1970.  
'The Fourier transform of an electron micrograph; effects of defocussing and aberrations, and implications for the use of underfocus contrast enhancement'
61. Erickson, H.P. and Klug, A. Phil. Trans. Roy. Soc. B 261, 105-118, 1971.  
'Measurement and compensation of defocusing and aberrations by Fourier processing of electron micrographs'
62. Klug, A. Phil. Trans. Roy. Soc. B 261, 173-179, 1971.  
'Applications of image analysis technique in electron microscopy'

63. Finch, J.T. and Klug, A. Phil. Trans. Roy. Soc. B 261, 211-219, 1971.  
'Three-dimensional reconstruction of the stacked-disk aggregate of tobacco mosaic virus protein from electron micrographs'
64. Durham, A.C.H., Finch, J.T. and Klug, A. Nature New Biol. 229, 37-42, 1971.  
'States of aggregation of tobacco mosaic virus protein'
65. Durham, A.C.H. and Klug, A. Nature New Biol. 229, 42-46, 1971.  
'Polymerisation of protein subunits and its control'
66. Butler, P.J.G. and Klug, A. Nature New Biol. 229, 47-50, 1971.  
'Assembly of the particles from RNA and disks of protein'
67. Crowther, R.A. and Klug, A. J. Theor. Biol. 32, 199-203, 1971.  
'ART and science or conditions for three-dimensional reconstruction from electron microscope images'
68. Klug, A. and Durham, A.C.H. Cold Spring Harb. Symp. Quant. Biol. 36, 449-460, 1971.  
'The disk of TMV protein and its relation to the helical and other modes of aggregation'
69. Klug, A. Cold Spring Harb. Symp. Quant. Biol. 36, 483-486, 1971.  
'Interpretation of the rotation function map of satellite tobacco necrosis virus; octahedral packing of icosahedral particles'
70. Barrett, A.N., Barrington-Leigh, J., Holmes, K.C., Leberman, R., Mandelkow, E. von engbusch, P. and Klug, A. Cold Spring Harb. Symp. Quant. Biol. 36, 433-448, 1971.  
'An electron density map of tobacco mosaic virus at 10 Å resolution'
71. DeRosier, D.J. and Klug, A. J. Mol. Biol. 65, 469-488, 1972.  
'Structure of the tubular variants of the head of bacteriophage T4 (polyheads). I. Arrangement of subunits in some classes of polyheads'
72. Yanagida, M., DeRosier, D.J. and Klug, A. J. Mol. Biol. 65, 489-499, 1972.  
'The structure of the tubular variants of the head of bacteriophage T5 (polyheads). II. Structural transition from a hexamer to a 6 + 1 morphological unit'
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'Assembly of tobacco mosaic virus'
74. Durham, A.C.H. and Klug, A. J. Mol. Biol. 67, 315-332, 1972.  
'Structures and roles of the polymorphic forms of tobacco mosaic virus protein; III. A model for the association of A-protein into discs'
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'Three-dimensional image reconstruction using functional expansions'
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78. Klug, A. CIBA Found. Symp. 7, 1972.  
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'Assembly of tobacco mosaic virus in vitro: effect of state of polymerisation of the protein component'
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'Three-dimensional image reconstruction from the viewpoint of information theory'
81. Mellema, J.E. and Klug, A. Nature 239, 146-150, 1972.  
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'High resolution X-ray diffraction studies on a pure species of transfer RNA'
83. Brown R.S., Clark, B.F.C., Coulson, R.R., Finch, J.T., Klug, A. and Rhodes, D. Eur. J. Biochem. 31, 130-134, 1972.  
'Crystallisation of pure species of bacterial tRNA for X-ray diffraction studies'
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'Structures and roles of the polymorphic forms of tobacco mosaic virus protein. IV. Control of mode of aggregation of tobacco mosaic virus protein by proton binding'
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'The Generation of Subcellular Structures (Eds. Markham and Bancroft) . The helical surface lattice of bacterial flagella.'
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'Arrangement of subunits in flagellar microtubules'
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'Rosalind Franklin and the double helix'
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'X-ray analysis of the disk of tobacco mosaic virus protein. II. The packing arrangement in the crystal'
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'X-ray analysis of the disk of tobacco mosaic virus protein. III. A low resolution electron density map'

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'3-dimensional image reconstruction on an extended field: a fast stable algorithm'
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